

AMS02-PDS

DOC N°: PDS-RP-CGS-018

ISSUE: 1

DATE: 17/06/2008

PAGE: 1 of 3

PROC. REF.

INSPECTION REPORT

APPLICABLE DOC. REF.

AMS02-PDS PFM Manufacturing and Inspection Plan PDS-PL-CGS-001

N.A.

ITEM INSPECTED (Name, P/N, S/N) AMS02-PDS PFM - PB2 Module Assy p/n:11-AMS02PDS-700.00 s/n:06 (pcb s/n:07-009/B), PB2 Module Assy p/n:11-AMS02PDS-700.00 s/n:07 (pcb s/n:07-008/A), Esem 3-A Board

Assy p/n:11-AMS02PDS-300.00 s/n:01 — Inspection Point. REQUIREMENT SATISFIED

Manufacturing according to aerospace standards

INSPECTION (Action/Results)

DESCRIPTION

Inspection was performed at Carlo Gavazzi Space premises starting on 17 June 2008 and was carried out on the following boards, detail of the inspected boards were below reported:

- PB2 Module Assy p/n:11-AMS02PDS-700.00 s/n:06 (pcb s/n:07-009/B).
- 2) PB2 Module Assy p/n:11-AMS02PDS-700.00 s/n:07 (pcb s/n:07-008/A).
- 3) Esem 3-A Board Assy p/n:11-AMS02PDS-300.00 s/n:01(pcb s/n:07-034/C).

HARDWARE REVIEW

1) PB2 Module Assy p/n:11-AMS02PDS-700.00 s/n:06 (pcb s/n:07-009/B), Assy:11-AMS02PDS-700.00 rev./, Parts List:11-AMS02PDS-700.01 rev./, Electrical Scheme:11-AMS02PDS-700.02 rev./, Master PCB:SPO-PD-

The following NCRs were presented during the inspection:

- NCR-PDS-CGS-C-008(electronic components assembly problems), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the component C47 with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-033(PB2 outlet lines design improvement), NCR classified "minor" is closed.
- NCR-PDS-CGS-C-048(PB2 board bracket conductance optimization), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: mount cardretainer MWEN226-8.00TM2LR.

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-700.01 rev / A1 can be considered closed.
- 11-AMS02PDS-700.01 rev / A2 can be considered closed.
- 11-AMS02PDS-700.01 rev / A3 can be considered closed.
- 11-AMS02PDS-700.01 rev / A4 can be considered closed.
- 11-AMS02PDS-700.01 rev / A12 can be considered closed.
- 11-AMS02PDS-700.01 rev / A16 is still open.

On the pcb the U11 (AD590) component is not mounted.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

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AMS02-PDS

DOC N°: PDS-RP-CGS-018

ISSUE: 1

DATE: 17/06/2008

PAGE: 2 of 3

INSPECTION REPORT

APPLICABLE DOC. REF. See page 1	PROC. REF. See page 1	
ITEM INSPECTED (Name, P/N, S/N) See page 1		
REQUIREMENT SATISFIED See page 1		

INSPECTION (Action/Results)

2) PB2 Module Assy p/n:11-AMS02PDS-700.00 s/n:07 (pcb s/n:07-008/A), Assy:11-AMS02PDS-700.00 rev./, Parts List:11-AMS02PDS-700.01 rev./, Electrical Scheme:11-AMS02PDS-700.02 rev./, Master PCB:SPO-PD-020500-DR-03-CGS rev./.

The following NCRs were presented during the inspection:

- NCR-PDS-CGS-C-009(electronic components assembly problems), NCR classified "minor" is still
 open during the inspection activity, the following corrective actions will be performed: glue the
 component C47 with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-034(PB2 outlet lines design improvement), NCR classified "minor" is closed.
- NCR-PDS-CGS-C-048(PB2 board bracket conductance optimization), NCR classified "minor" is still
 open during the inspection activity, the following corrective actions will be performed: mount cardretainer MWEN226-8.00TM2LR.

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-700.01 rev / A1 can be considered closed.
- 11-AMS02PDS-700.01 rev / A2 can be considered closed.
- 11-AMS02PDS-700.01 rev / A3 is still open.
- 11-AMS02PDS-700.01 rev / A4 can be considered closed.
- 11-AMS02PDS-700.01 rev / A12 can be considered closed.
- 11-AMS02PDS-700.01 rev / A16 is still open.

On the pcb the following components are not mounted:U11 (AD590), CL1, CL4, Q1, Q2, Q3, Q4, Q10, Q11. The H/W has been visually inspected and is ok: no damage, visible clean is ok.

3) Esem 3-A Board Assy p/n:11-AMS02PDS-300.00 s/n:01(pcb s/n:07-034/C), Assy:11-AMS02PDS-300.00 rev./, Parts List:11-AMS02PDS-300.01 rev.A, Electrical Scheme:11-AMS02PDS-300.02 rev./, Master PCB:11-AMS02PDS-300.03 rev./.

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-300.01 rev A A1 can be considered closed.
- 11-AMS02PDS-300.01 rev A A2 can be considered closed
- 11-AMS02PDS-300.01 rev A A4 can be considered closed.
- 11-AMS02PDS-300.01 rev A A6 can be considered closed.
- 11-AMS02PDS-300.01 rev A A7 can be considered closed.

	Operator	Quality Assurance	C.C. '
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PAGE: 3 of 3

INSPECTION REPORT

APPLICABLE DOC. REF. See page 1	PROC. REF. See page 1
ITEM INSPECTED (Name, P/N, S/N) See page 1	
REQUIREMENT SATISFIED See page 1	
INSPECTION (Action/Results)	

INSPECTION (Action/Results)

11-AMS02PDS-300.01 rev A - A8 can be considered closed.

The following NCRs were presented during the inspection:

- NCR-PDS-CGS-C-021(mechanical assembly problems), NCR classified "minor" is closed.
- NCR-PDS-CGS-C-049(rubber silicon sheet missing under U22 component), NCR classified "minor" is

On the pcb the following components are not mounted: U6 (AD590) and U25 (A1020B-CQ84B FPGA).

CONCLUSION

All solder joints are of adequate quality, the soldering process complies to ECSS-Q-70-08 and ECSS-Q-70-38, all modifications are performed according to ECSS-Q-70-28.

The open points are here listed:

- 1) On PB2 Module Assy p/n:11-AMS02PDS-700.00 s/n:06 (pcb s/n:07-009/B) the U11 (AD590) component is
- 2) On PB2 Module Assy p/n:11-AMS02PDS-700.00 s/n:06 (pcb s/n:07-009/B) the PLVS 11-AMS02PDS-700.01 rev / - A16 is still open.
- 3) NCR-PDS-CGS-C-008(electronic components assembly problems), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the component C47 with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- 4) NCR-PDS-CGS-C-048(PB2 board bracket conductance optimization), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: mount card-retainer MWEN226-8.00TM2LR.
- 5) On PB2 Module Assy p/n:11-AMS02PDS-700.00 s/n:07 (pcb s/n:07-008/A) the following components are not mounted:U11 (AD590), CL1, CL4, Q1, Q2, Q3, Q4, Q10, Q11.
- 6) On PB2 Module Assy p/n:11-AMS02PDS-700.00 s/n:07 (pcb s/n:07-008/A) the PLVSs 11-AMS02PDS-700.01 rev / - A3 and 11-AMS02PDS-700.01 rev / - A16 are still open.
- 7) NCR-PDS-CGS-C-009(electronic components assembly problems), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the component C47 with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- 8) On Esem 3-A Board Assy p/n:11-AMS02PDS-300.00 s/n:01(pcb s/n:07-034/C) the following components are not mounted: U6 (AD590) and U25 (A1020B-CQ84B FPGA).

	Operator	Quality Assurance	C.C.
Signature		E. FRANCINE	
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